

INTERNATIONAL SEARCH REPORT

Internal Application No

PCT/EP 02/11993

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G01M11/00 H04B10/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G01M H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 212 003 B1 (H. KOMAZAWA ET AL.) 3 April 2001 (2001-04-03) the whole document ---	1,12,20
A	EP 1 148 664 A (ANDO ELECTRIC CO., LTD. ET AL.) 24 October 2001 (2001-10-24) the whole document ---	1,12,20
A	FLEMING S C ET AL: "MEASUREMENT OF PUMP INDUCED REFRACTIVE INDEX CHANGE IN ERBIUM DOPED FIBRE AMPLIFIER" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 27, no. 21, 10 October 1991 (1991-10-10), pages 1959-1961, XP000265678 ISSN: 0013-5194 the whole document ---	1,12,20

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

5 June 2003

Date of mailing of the international search report

18/06/2003

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax. (+31-70) 340-3016

Authorized officer

Van Assche, P

INTERNATIONAL SEARCH REPORTInternational Application No
PCT/EP 02/11993**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 280 329 A (ANRITSU CORPORATION) 31 August 1988 (1988-08-31) the whole document -----	1,12,20
A	EP 1 018 642 A (ADVANTEST CORPORATION) 12 July 2000 (2000-07-12) the whole document -----	1,12,20

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International Application No
PCT/EP 02/11993

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6212003	B1	03-04-2001	WO JP	9943054 A1 3322679 B2		26-08-1999 09-09-2002
EP 1148664	A	24-10-2001	JP EP US	2001308417 A 1148664 A2 2001046082 A1		02-11-2001 24-10-2001 29-11-2001
EP 280329	A	31-08-1988	EP JP US	0280329 A2 64000438 A 4799789 A		31-08-1988 05-01-1989 24-01-1989
EP 1018642	A	12-07-2000	JP EP US	2000199730 A 1018642 A2 6493074 B1		18-07-2000 12-07-2000 10-12-2002